TRANSLATION PATENT COOPERATION TREATY INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant PC-9	t's or agent's file reference 9101	FOR FURTHER	ACTION	See Form PCT/IPEA/416				
International application No.		International filing d	ate (day/month/year)	Priority date (day/month/year)				
PCT/	JP2004/0144	37 24.09.200)4	25.09.2003				
International Patent Classification (IPC) or national classification and IPC H04S7/00, H04R1/40, H04R5/02, H04S1/00								
Applicant YAMAHA CORPORATION								
	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2.	This REPORT consists o	fatotal of 4	sheets, includir	ng this cover sheet.				
3.	This report is also accom	panied by ANNEXES, comprising	;:					
	a. (sent to the a	oplicant and to the International B	ureau) a total of	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	b. (sent to the Ir	nternational Bureau only) a total o	f (indicate type and numb	er of electronic carrier(s))				
				, containing a sequence listing and/or tables				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	This report contains indicate	cations relating to the following ite	ems:					
	Box No. I	Basis of the report						
	Box No. II	Priority						
	Box No. III	Non-establishment of opinion wit	h regard to novelty, inven	ntive step and industrial applicability				
	Box No. IV Lack of unity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	ox No. VI Certain documents cited						
	Box No. VII	Certain defects in the international application						
	Box No. VIII Certain observations on the international application							
Date of submission of the demand			Date of completion of this report					
Name and mailing address of the IPEA/JP			Authorized officer					
Facsimile No.			Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/014437

Box	No. I	Basis of the report					
1.		regard to the language, this report is based on the ated under this item.	international application in the language in whic	h it was filed, unless otherwise			
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:					
		international search (Rule 12.3 and 23.1(b))					
-		publication of the international application (
	Wish	international preliminary examination (Rule		s which have been furnished to the			
2.	recei	ith regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to is report):					
		the international application as originally filed/fur	nished				
	Ш	the description:					
		pages		as originally filed/furnished			
		pages*	received by this Authority on				
		pages*	received by this Authority on				
		the claims:					
		nos.		as originally filed/furnished			
		nos.*	as amended (together wit	h any statement) under Article 19			
		nos.*	received by this Authority on				
		nos.*	received by this Authority on				
		the drawings:					
		sheets	· · · · · · · · · · · · · · · · · · ·	as originally filed/furnished			
		sheets*	received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) - sec	e Supplemental Box Relating to Sequence Listing	g.			
3.		The amendments have resulted in the cancellation					
5.	line and						
			the description, pages				
			the claims, nos the drawings, sheets/figs				
ŀ			the sequence listing (specify):				
			cify):	-			
4.		This report has been established as if (some of)	the amendments annexed to this report and liste	ed below had not been made, since			
		they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the claims, nos.					
		the drawings, sheets/figs					
, in the second	any table(s) related to sequence listing (specify):						
*	If ite	em 4 applies, some or all of those sheets may be ma	rked "superseded."	·			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/014437

Во		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	1-4	YES		
		Claims		NO		
	Inventive step (IS)	Claims		YES		
		Claims	1-4	NO		
	Industrial applicability (IA)	Claims	1-4	YES		
		Claims		NO NO		

2. Citations and explanations (Rule 70.7)

Document 1: JP 6-178379 A (Sony Corp.), 10 December 1994

Document 2: JP 2000-36993 A (NEC Corp.), 02 February 2002

Document 1 discloses a stereo sound reproduction device whereby the sounds emitted from highly directional speakers are reflected off of acoustic reflection panels that have been disposed to the rear of a viewer in order to achieve an effect identical to that of a system in which rear speakers have been disposed to the rear of the viewer, wherein first speakers are disposed on the left side and the right side of the video display unit and highly directional second speakers are disposed in the vicinity thereof so that it is possible to produce sound effects by augmenting the sounds from the first speakers by means of the sounds from the second speakers.

Meanwhile, document 2 discloses an ultra-directional speaker system with a parametric speaker array which comprises first speakers that emit first acoustic vibrations and second speakers that emit second acoustic vibrations, wherein said system is configured so that when the first acoustic vibrations and the second acoustic vibrations encounter one another, the first acoustic vibrations and the second acoustic vibrations will cancel

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/014437

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

one another out in cases when the phases thereof are different and will enhance one another in cases when the phases thereof are the same. As a result, it is possible to adjust the level of acoustic pressure within only a prescribed space by merely controlling and changing the phase of the first acoustic vibrations.

The invention set forth in claims 1 to 4 of the present application is substantially the same as the invention disclosed in document 1, with the exception of the fact that the first sounds and the second sounds have opposite phases and the fact that the directionality characteristics of the first speakers are corrected by means of said second sounds at the viewing position in the invention that is set forth in claims 1 to 4 of the present application, whereas the sounds merely augment one another without correcting the directionality characteristics of the speakers in the invention that is disclosed in document 1.

However, the feature of reversing the phase of the outputs from the second speakers in order to correct the directionality characteristics of the first speakers is disclosed in document 2 (therein, the feature of adjusting the level of acoustic pressure within only a prescribed space is considered to correspond to the feature of correcting the directionality characteristics).

Such being the case, the inventions that are set forth in claims 1 to 4 of the present application could easily have been invented by merely combining the invention that is disclosed in document 1 with the invention that is disclosed in document 2.